

# BLUE STAR

## Power Systems Inc.

### Diesel Product Line

208-600 Volt

PD300-01

60 Hz / 1800 RPM

300 kWe

Standby

### Ratings

	208V	240V	480V	600V
<b>Phase</b>	3	3	3	3
<b>PF</b>	0.8	0.8	0.8	0.8
<b>Hz</b>	60	60	60	60
<b>Generator Model</b>	433CSL6216	433CSL6216	432CSL6212	432PSL6246
<b>Connection</b>	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
<b>kWe</b>	300	300	300	300
<b>AMPS</b>	1042	903	452	361
<b>Temp Rise</b>	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°C

### Standard Equipment

#### Engine

- ▶ Radiator Cooled Unit Mounted (50°C)
- ▶ Blower Fan & Fan Drive
- ▶ Starter & Alternator
- ▶ Oil Pump & Filter
- ▶ Oil Drain Extension w/Valve
- ▶ Governor - Electronic Isochronous
- ▶ 24V Battery System & Cables
- ▶ Air Cleaner (Dry Single Stage)
- ▶ Flexible Fuel Connector
- ▶ EPA Certified Tier 3

#### Listing Certifications

- ▶ UL 2200 Listed
- ▶ cUL Listed
- ▶ CSA Certified
- ▶ Seismic Certified to IBC 2018
- ▶ NFPA 110 Compliant

#### Generator

- ▶ Brushless Single Bearing
- ▶ Automatic Voltage Regulator
- ▶ ± 1% Voltage Regulation
- ▶ 4 Pole, Rotating Field
- ▶ 130°C Standby Temperature Rise
- ▶ 100% of Rated Load - One Step
- ▶ 5% Maximum Harmonic Content
- ▶ NEMA MG 1, IEEE and ANSI Standards Compliance for Temperature Rise

#### Additional

- ▶ Single Source Supplier
- ▶ Microprocessor Based Digital Control
- ▶ Interface Connection Box
- ▶ Control Panel Mounted in NEMA 12 Enclosure
- ▶ Base - Formed Steel
- ▶ Main Line Circuit Breaker Mounted & Wired
- ▶ Critical Grade Silencer Mounted
- ▶ Battery Charger 24V 5 Amp
- ▶ Jacket Water Heater -20°F 2500W 240V w/Isolation Valves
- ▶ Vibration Isolation Mounts
- ▶ Radiator Duct Flange (OPU Only)
- ▶ 2YR / 2000HR Standby Warranty
- ▶ Standard Colors - White / Gray

## Application Data

Engine			
Manufacturer:	Perkins	Displacement - Cu. In. (lit):	568 (9.30)
Model:	1706D-E93TAG2	Bore - in. (cm) x Stroke - in. (cm):	4.53 (11.5) x 5.87 (14.9)
Type:	4-Cycle	Compression Ratio:	16.5:1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	475 (354)

Exhaust System	Standby
Gas Temp. (Stack): °F (°C)	959 (515)
Gas Volume at Stack Temp: CFM (m³/min)	2,435 (68.9)
Maximum Allowable Exhaust Restriction: in. H <sub>2</sub> O (kPa)	40.0 (10.0)

Cooling System	
Ambient Capacity of Radiator: °F (°C)	122 (50.0)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H <sub>2</sub> O (kPa)	0.50 (0.12)
Water Pump Flow Rate: GPM (lit/min)	87.2 (330)
Heat Rejection to Coolant: BTUM (kW)	7,771 (136)
Heat Rejection to CAC: BTUM (kW)	6,057 (106)
Heat Radiated to Ambient: BTUM (kW)	2,732 (47.8)

Air Requirements	
Aspirating: CFM (m³/min)	951 (26.9)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	17,032 (482)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min)	Consult Factory For Remote Cooled Applications

Fuel Consumption	
At 100% of Power Rating: gal/hr (lit/hr)	22.3 (84.3)
At 75% of Power Rating: gal/hr (lit/hr)	17.2 (65.1)
At 50% of Power Rating: gal/hr (lit/hr)	12.6 (47.9)

Fluids Capacity	
Total Oil System: gal (lit)	7.93 (30.0)
Engine Jacket Water Capacity: gal (lit)	5.36 (20.3)
System Coolant Capacity: gal (lit)	9.46 (35.8)

### Deration Factors

Rated power available up to 2,461 ft (750 m) at ambient temperatures to 104° F (40° C)  
 Consult factory for site conditions above these parameters.

### DGC-2020 Control Panel

#### Standard Features

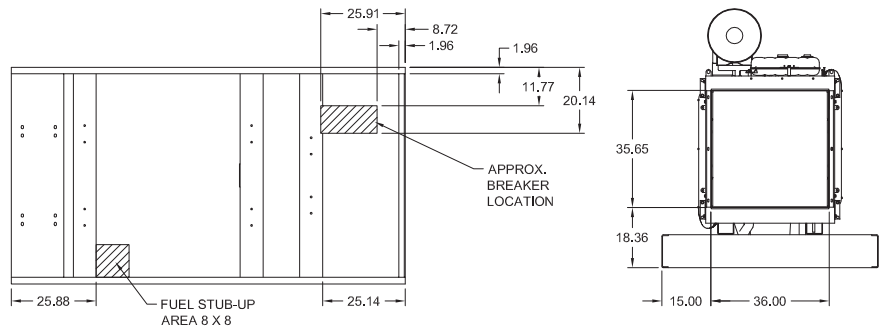
- ▶ Digital Metering
- ▶ Engine Parameters
- ▶ Generator Protection Functions
- ▶ Engine Protection
- ▶ CAN Bus (J1939) ECU Communications
- ▶ Windows-Based Software
- ▶ Multilingual Capability
- ▶ Remote Communications to RDP-110 Remote Annunciator
- ▶ 16 Programmable Contact Inputs
- ▶ 15 Contact Outputs
- ▶ RS485 Communicator Interface
- ▶ UL Recognized, CSA Certified, CE Approved
- ▶ Event Recording
- ▶ IP 54 Front Panel Rating with Integrated Gasket
- ▶ NFPA 110 Level 1 Compatible



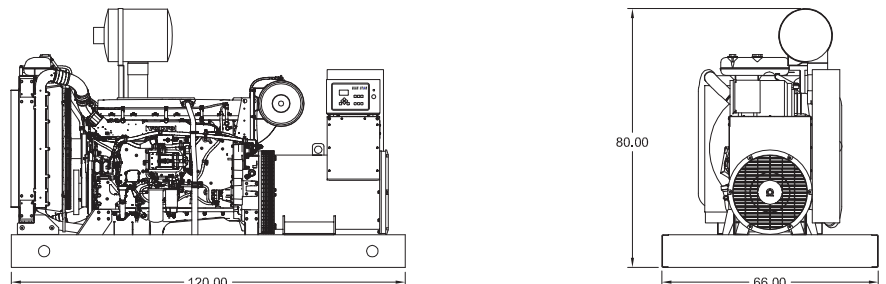
### Weights / Dimensions / Sound Data

	L x W x H	Weight lbs
<b>OPU</b>	120 x 66 x 78 in	5,575
<b>Level 1</b>	156 x 66 x 94 in	6,825
<b>Level 2</b>	156 x 66 x 94 in	6,900
<b>Level 3</b>	196 x 66 x 94 in	7,225

Please allow 6-12 inches for height of exhaust stack.

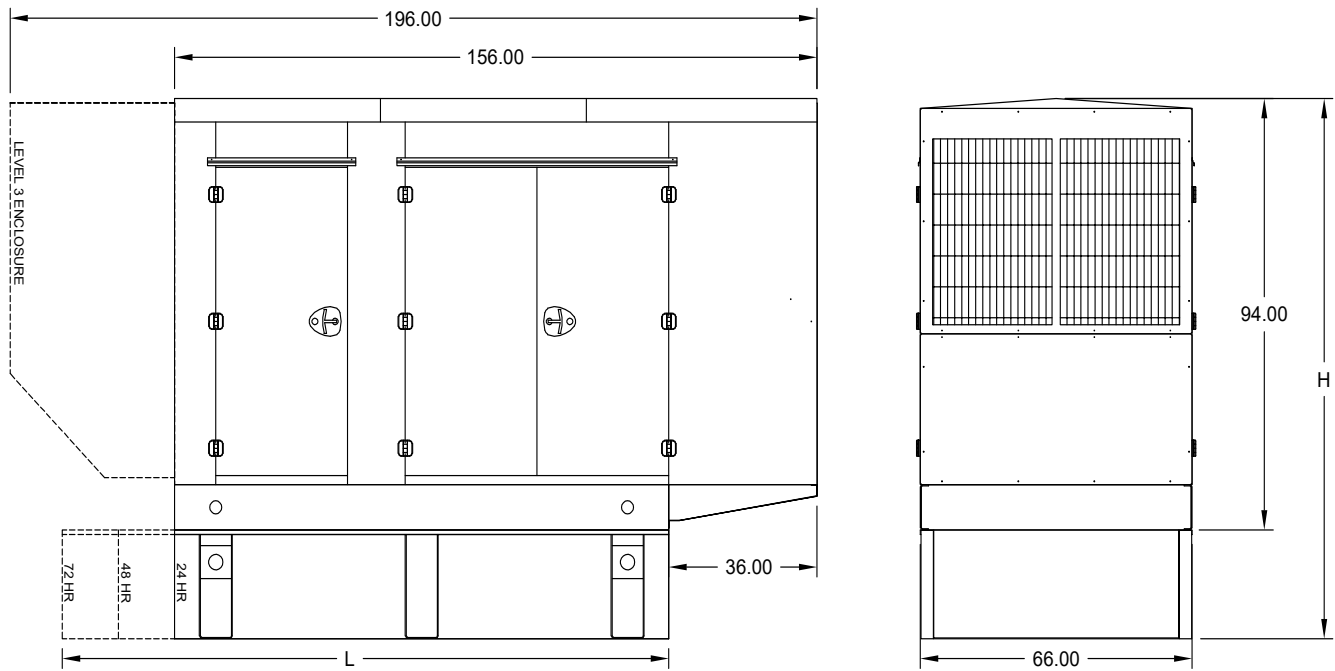


	No Load	Full Load
<b>OPU</b>	86 dBA	88 dBA
<b>Level 1</b>	83 dBA	85 dBA
<b>Level 2</b>	77 dBA	79 dBA
<b>Level 3</b>	69 dBA	71 dBA



Drawings based on standard open power 480 volt standby generator. Lengths may vary with other voltages. Subject to change without notice. Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at standby rating.

Enclosures & Fuel Tanks



All enclosure models are 200 MPH wind rating certified in accordance with IBC2018 and ASCE/SEI 7-16 standards.

Level 2 & 3 enclosures include sound attenuation foam.

Level 3 enclosure includes frontal sound & exhaust hood.

\*Enclosure height does not include exhaust stack.

	24 Hour 540 Gallon	48 Hour 1080 Gallon	72 Hour 1620 Gallon
<b>L</b>	120.00	162.00	228.00
<b>H</b>	118.00	130.00	130.00

All specification sheet dimensions are represented in inches.

All enclosures and fuel tanks are based on the standard standby unit configuration. Any deviation can change dimensions.

Materials and specifications subject to change without notice.

American Owned



American Made

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